

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

AS81714/19

FEDERAL SUPPLY CLASS
5940

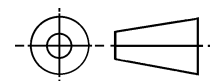
NOTICE

THIS DOCUMENT HAS BEEN TAKEN DIRECTLY FROM U.S. MILITARY SPECIFICATION MIL-T-81714/19B AND CONTAINS ONLY MINOR EDITORIAL AND FORMAT CHANGES REQUIRED TO BRING IT INTO CONFORMANCE WITH THE PUBLISHING REQUIREMENTS OF SAE TECHNICAL STANDARDS. THE INITIAL RELEASE OF THIS DOCUMENT IS INTENDED TO REPLACE MIL-T-81714/19B. ANY PART NUMBERS ESTABLISHED BY THE ORIGINAL SPECIFICATION REMAIN UNCHANGED.

THE ORIGINAL MILITARY SPECIFICATION WAS ADOPTED AS AN SAE STANDARD UNDER THE PROVISIONS OF THE SAE TECHNICAL STANDARDS BOARD (TSB) RULES AND REGULATIONS (TSB 001) PERTAINING TO ACCELERATED ADOPTION OF GOVERNMENT SPECIFICATIONS AND STANDARDS. TSB RULES PROVIDE FOR (A) THE PUBLICATION OF PORTIONS OF UNREVISED GOVERNMENT SPECIFICATIONS AND STANDARDS WITHOUT CONSENSUS VOTING AT THE SAE COMMITTEE LEVEL, AND (B) THE USE OF THE EXISTING GOVERNMENT SPECIFICATION OR STANDARD FORMAT.

UNDER DEPARTMENT OF DEFENSE POLICIES AND PROCEDURES, ANY QUALIFICATION REQUIREMENTS AND ASSOCIATED QUALIFIED PRODUCTS LISTS ARE MANDATORY FOR DOD CONTRACTS. ANY REQUIREMENT RELATING TO QUALIFIED PRODUCTS LISTS (QPL'S) HAS NOT BEEN ADOPTED BY SAE AND IS NOT PART OF THIS SAE TECHNICAL DOCUMENT.

THIRD ANGLE PROJECTION



ISSUED 2001-07

PREPARED BY SAE SUBCOMMITTEE AE-8C2

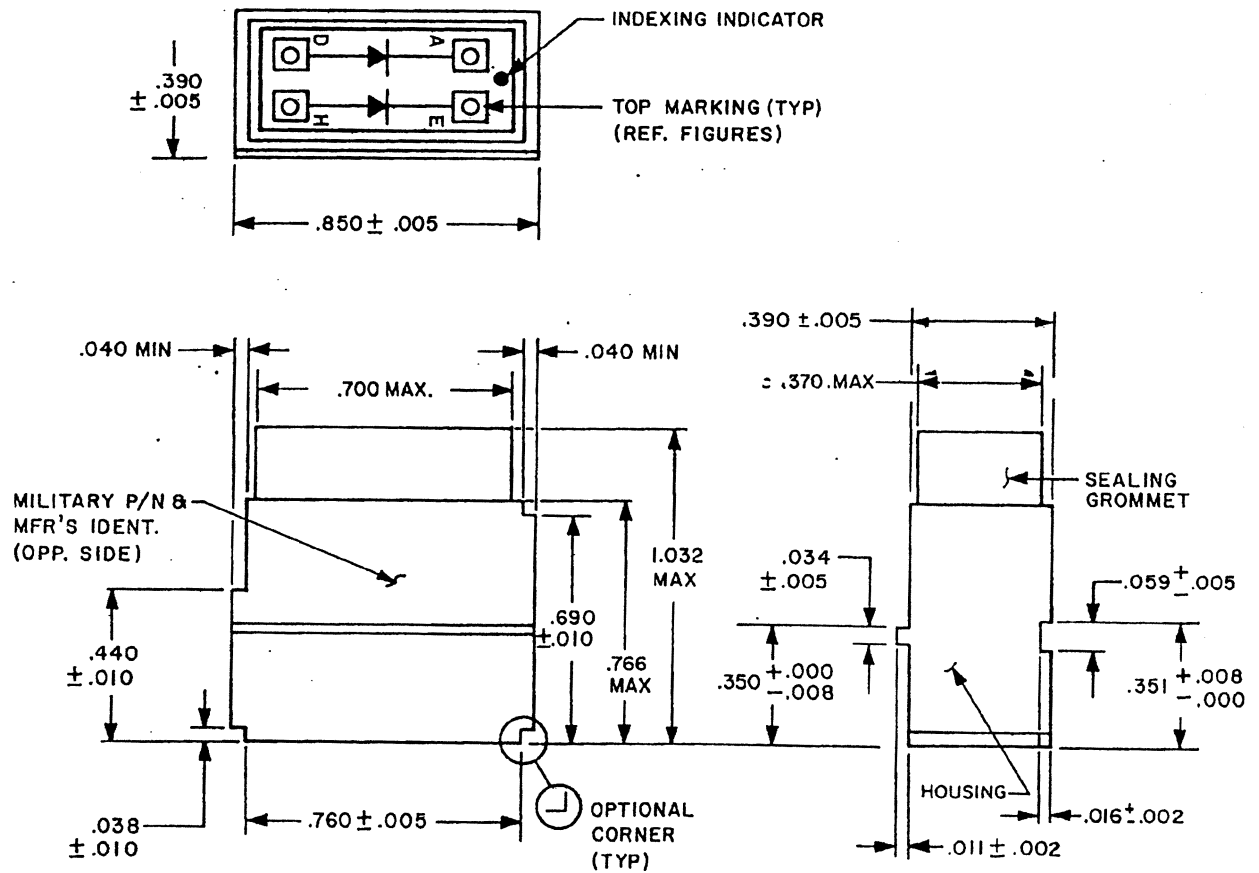
SAE The Engineering Society
For Advancing Mobility
Land Sea Air and Space®
400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE STANDARD

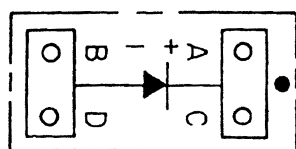
TERMINAL JUNCTION SYSTEM, TERMINAL
JUNCTION BLOCKS, SECTIONAL, MODULES,
ELECTRONIC, FEEDBACK TYPE, SIZE 16, SERIES I

AS81714/19
SHEET 1 OF 6

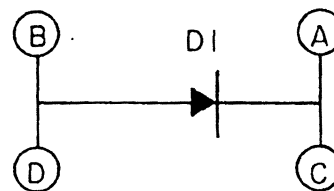
THE COMPLETE REQUIREMENTS FOR ACQUIRING THE BLOCKS DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF SPECIFICATION MIL-T-81714.



Size 16 Electronic Block

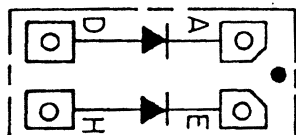


TOP MARKING

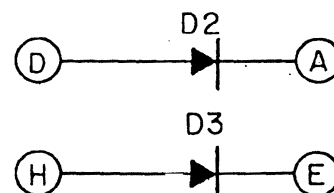


SCHEMATIC DIAGRAM

FIG. 1A

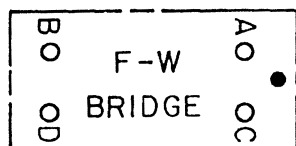


TOP MARKING

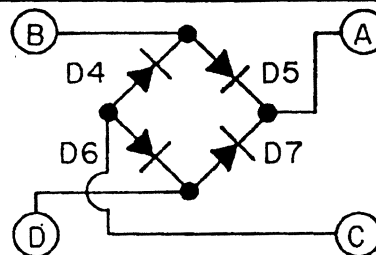


SCHEMATIC DIAGRAM

FIG. 1B



TOP MARKING



SCHEMATIC DIAGRAM

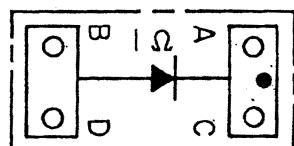
FIG. 1C

FIGURE 1. BLOCKS WITH DIODE(S).

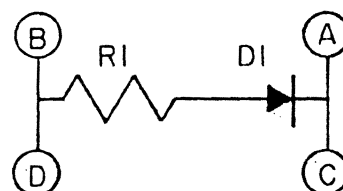
TABLE I. DASH NUMBERS FOR FIGURE 1.

Dash No.	Figure	Ref Des	Part Number	Specification
-001	1A	D1	JAN 1N5618	MIL-S-19500/427
-002	1A	D1	JAN 1N5061	MIL-S-19500/427
-003	1B	D2/D3	JAN 1N5626	MIL-S-19500/432
-004	1C	D4, D5 D6, D7	JAN 1N3611	MIL-S-19500/228
-005	1C	D4, D5 D6, D7	JAN 1N5622	MIL-S-19500/427

Inch	mm	Inch	mm	Inch	mm	Inch	mm
.002	0.05	.038	0.97	.370	9.40	.752	19.10
.005	0.13	.040	1.02	.390	9.91	.760	19.30
.010	0.25	.059	1.50	.440	11.18	.766	19.46
.011	0.28	.350	8.89	.690	17.53	.850	21.59
.014	0.36	.351	8.92	.700	17.78	1.032	26.21
.034	0.86	.365	9.27				

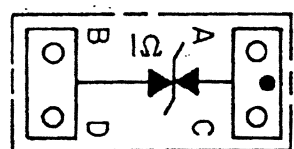


TOP MARKING

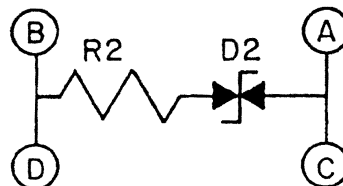


SCHEMATIC DIAGRAM

FIG. 2A



TOP MARKING



SCHEMATIC DIAGRAM

FIG. 2B

FIGURE 2. BLOCKS WITH RESISTOR AND DIODE.

TABLE II. DASH NUMBERS FOR FIGURE 2.

Dash No.	Figure	Ref. Des.	Ohms	Part Number	Specification No.
-601	2A	R1	1.0	RWR81S1R00FM	MIL-R-39007/9
		D1		JAN 1N5618	MIL-S-19500/427
		D1		JAN 1N3613	MIL-S-19500/228
-602	2B	R2	1.0	RWR81S1R00FM	MIL-R-39007/9
		D2		JAN-TX-1N6162	MIL-S-19500/516
-603	2B	R2	1.0	RWR81S1R00FM	MIL-R-39007/9
		D2		JAN-TX-1N6173	MIL-S-19500/516

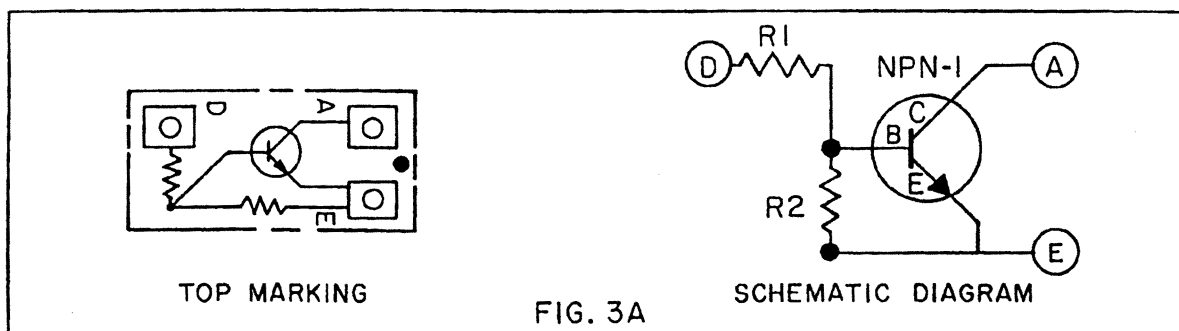
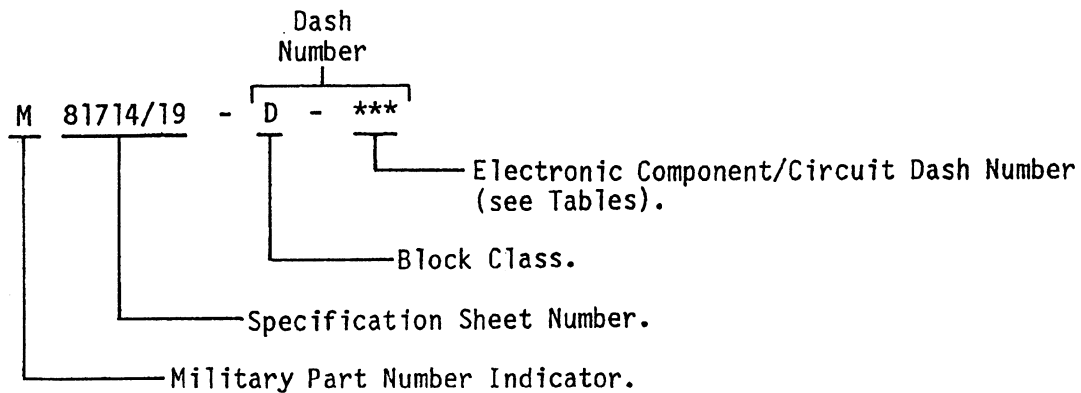


TABLE III. DASH NUMBERS FOR FIGURE 3.

Dash No.	Figure	Ref. Des.	Ohms	Part Number	Specification No.
-801	3A	R1	150K	RN60C1503F	MIL-R-10509/1
		R2	10K	RN60C1002F	MIL-R-10509/1
		NPN-1		JAN 2N2222A	MIL-S-19500/255

NOTES:

1. DIMENSIONS ARE IN INCHES.
2. THIS BLOCK IS DESIGNED FOR INSTALLATION IN THE MIL-T-81714/5 RACK AND MIL-T-81714/16 RACK WITH ITS INDEXING INDICATOR ADJACENT TO THE INDEXING RACK RAIL. THIS BLOCK CAN ALSO BE INSTALLED IN MIL-T-81714/29 BRACKETS.
3. TOOL FOR CONTACT INSERTING/REMOVAL IS M81969/14-03 OR M81969/8-08 AND SHALL BE ORDERED SEPARATELY.
4. METRIC EQUIVALENTS (TO THE NEAREST .01 MM) ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED UPON 1 INCH = 25.4 MM.
5. THE PART NUMBER CONSISTS OF THE LETTER M, SPECIFICATION SHEET NUMBER, BLOCK CLASS AND ELECTRONIC COMPONENT/CIRCUIT DASH NUMBER (SEE TABLES).

**Part Number Example:**

PART NUMBER EXAMPLE:

M81714/19-D-001

FEEDBACK TYPE ELECTRONIC BLOCK, SIZE 16, CLASS D, WITH -001 CIRCUIT, ONE JAN 1N3613 DIODE OR ONE JAN 1N5618 DIODE.

6. CLASSES A, B AND C COMPONENTS ARE INACTIVE FOR NEW DESIGN. ONLY CLASS D COMPONENTS SHALL BE USED FOR DIRECT GOVERNMENT ACQUISITION.

REVISION LETTERS ARE NOT USED TO DENOTE CHANGES DUE TO THE EXTENSIVENESS OF THE CHANGES.